

Form MMS 123A/123S - Electronic Version
Application for Permit to Drill a New Well

Lease G32181 **Area/Block** EI 305 **Well Name** 001 **ST** 00 **BP** 00 **Well Type** Exploration
Application Status Approved **Operator** 02477 Tarpon Operating & Development, L.L.C.

Pay.gov **Agency** **Pay.gov**
Amount: **Tracking ID:** 74239131867 **Tracking ID:** 254FUG6K

General Well Information

API Number 177104165000	Approval Date 01/13/2012	Approved By Marty Rinaudo
Date of Request 10/17/2011	Req Spud Date 12/01/2011	Kickoff Point N/A
Water Depth (ft.) 226	Drive Size (in) 24	Mineral Code Hydrocarbon
RKB Elevation 100	Drive Depth (ft.) 500	Subsea BOP No
Verbal Approval Date		Verbal Approval By

Proposed Well Location
Surface Location

LEASE (OCS) G32181	Area/Block EI 305	Authority Federal Lease
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 28.33122139	N 368	X 1932926.384658
Lon: -91.54174389	E 6985	Y -121937.054837
Surface Plan N 9569	Plan Lease (OCS) G32181	Area/Block EI 305

Bottom Location

LEASE (OCS) G32181	Area/Block EI 305
Entered NAD 27 Data	Calculated NAD 27 Departures
Lat: 28.33122472	N 368
Lon: -91.53958444	E 6290
Bottom Plan N 9569	Plan Lease (OCS) G32181
Area/Block EI 305	

Approval Comments

All operations must be conducted in accordance with the OCS Lands Act (OCSLA), the lease terms and stipulations, the regulations of 30 CFR Part 250, Notices to Lessees and Operators (NTLs), the approved Application for Permit to Drill (APD), and any written instructions or orders of the District Manager.

You must have the most current set of approved BOP drawings on the rig and available for inspection. If there are any revisions or changes made to the approved set of BOP control system drawings, then you must submit a RPD and receive approval for those revisions.

Notify the Lafayette District Drilling Engineer by email when converting to oil base mud.

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Your OSFR coverage expires on 02/15/2012, update your OSFR coverage by the expiration date.

If any formations known to contain oil or gas are encountered in the 22 inch hole section, the 18.625 inch conductor casing shall be set immediately per 30 CFR 250.421 (b).

Cement slurry must contain gas migration, quick transition time, and high compressive strength additives as needed for cementing across any hydrocarbons or encountered hazards. Casing must be centralized across any hydrocarbons or encountered hazards.

A 0.5 ppg drilling margin shall not be exceeded for any casing shoe.

Operation of the plus 10 valve must be in direct communication with the driller at all times.

For a well to be considered permanently abandoned, all annular spaces that communicate with open hole and extend to the mud line must be isolated with a cement plug at least 200 feet long that is set in the annulus, per regulation 30 CFR 250.1715 (a) (6).

You are required to submit the WAR's per 30 CFR 250.468(b) and the time requirements outlined in NTL No. 2009-G20. Also enter the as-built casing in the WAR for every wellbore, including each ST and/or BP. Include any significant events as required in the WAR. The EOR is required to be submitted by the time requirements stated in 30 CFR 250.465(b)(3).

A final location plat is required for this well in accordance with 30 CFR 250.465. The location plat must include NAD 83 latitude and longitude as outlined in the reporter's handbook for well forms. Also, include the final water depth and RKB measurements.

Hold a pre-spud meeting with the crew to discuss the drilling plan for all shallow hazards. Hold pit drills and abandon ship drill prior to spudding the well and drilling all shallow hazards.

The following cautions apply:

1. Possible Shallow Hazards: Exercise caution when working in the vicinity of the existing pipelines. Possible Shallow Biogenic Gas from 880 ft tvd to 1892 ft tvd below mud line, take proper precautions. The shallow sediments consist of clays and silts. The seafloor is underlain by sub-parallel, parallel and variable reflectors. Sonar contact is located within 1000 ft of proposed surface location; and may represent debris from former construction or shipping and fishing operations.
2. Possible Lost Circulation Zones: Bright spots at 4528 ft tvd, 6867 ft tvd, 7325 ft tvd, 9050 ft tvd and 9822 ft tvd.

Mitigations:

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Geologic Information

H2S Designation Absent	H2S TVD
Anticipated Geologic Markers	
Name	Top MD
8600 Sand	8620
10300' Sand	10311

Rig Information

RIG SPECIFICATIONS		ANCHORS	No
Rig Name	HERCULES 300		
Type	JACKUP	ID Number	45642
Function	DRILLING	Constucted Year	1974
Shipyard	BETHLEHEM	Refurbished Year	
RATED DEPTHS			
Water Depth	300	Drill Depth	20000
CERTIFICATES			
ABS/DNV	10/14/2013	Coast Guard	04/06/2012
SAFE WELDING AREA			
Approval Date	03/31/2000	District	1
Remarks	(Formerly Pride Texas)		

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Number	Question	Response	Response Text
1	Will you maintain quantities of mud and mud material (including weight materials and additives) sufficient to raise the entire system mud weight 1/2	YES	1000 sacks barite, 200 sacks gel
2	If hydrocarbon-based drilling fluids were used, is the drilling rig outfitted for zero discharge and will zero discharge procedures be followed?	YES	
3	If drilling the shallow casings strings riserless, will you maintain kill weight mud on the rig and monitor the wellbore with an ROV to ensure that it	N/A	
4	If requesting a waiver of the conductor casing, have you submitted a log to government agency G&G that is with in 500 feet of the proposed botto	N/A	
5	Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in comments for this question)	YES	GMG 290156
6	Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to we	N/A	Open water location
7	Is the calculated daily volume possible from an uncontrolled blowout of this well greater than the daily volume included in the worst case discharge	NO	

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Permit Attachments

File Type	File Description	Status
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Required Attachments

pdf	Drilling prognosis and summary of drilling, cementing, and mud processes	Attached
pdf	Directional Program	Attached
pdf	Proposed Well Location Plat	Attached
pdf	Engineering Calculation	Attached
pdf	BOP stack certification including statement regarding any modifications made since last certification	Attached
pdf	Proposed Wellbore Schematic	Attached
pdf	BOP & Diverter Schematics with Operating Procedures	Attached
pdf	Blind-shear ram capability and certification	Attached
pdf	Pore pressure (PP), Mud Weight (MW), and Fracture Gradient (FG) Plot	Attached

Optional/Supplemental Attachments

pdf	+10 Schematic	Attached
pdf	BOP Control Drawings	Attached
pdf	API RP 65	Attached
pdf	PE Certification	Attached
pdf	Mudline Hanger Suspension Equipment	Attached
pdf	Payment	Attached
pdf	Type of cement and additives	Attached

Contacts Information

Name	Cindy Bailey
Company	02477 Tarpon Operating & Development, L.L.C.
Phone Number	281-578-3388
E-mail Address	cindy.bailey@jccteam.com
Contact Description	

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Application Status Approved Operator 02477 Tarpon Operating & Development, L.L.C.

Name	Kim Sayre		
Company	02477	Tarpon Operating & Development, L.L.C.	
Phone Number	281-578-3388		
E-mail Address	kim.sayre@jccteam.com		
Contact Description			

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Well Design Information

Interval Number 1		Type	Casing	Name		Conductor		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Depth (ft) TVD	Pore Pressure (ppg)
1	18.625	87.5	J-55	2250	630	1000	1000	8.8
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 22.000			Type Diverter			Annular Test (psi) 0		
Mud Weight (ppg) 9.3			Size (in) 21.25			BOP/Diverter Test (psi) 250		
Mud Type Code Water Base			Wellhead Rating (psi) 3000			Test Fluid Weight (ppg) 9.3		
Fracture Gradient (ppg) 11.6			Annular Rating (psi) 0			Casing/Liner Test (psi) 250		
Liner Top Depth (ft) 0.0			BOP/Diverter Rating (psi) 2000			Formation Test (ppg) 0.0		
Cement Volume (cu ft) 2042								

Interval Number 2		Type	Casing	Name		Surface		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Depth (ft) TVD	Pore Pressure (ppg)
1	13.375	61.0	J55	3090	1560	4000	4000	8.9
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 17.500			Type Blowout			Annular Test (psi) 3500		
Mud Weight (ppg) 9.4			Size (in) 13.625			BOP/Diverter Test (psi) 5000		
Mud Type Code Water Base			Wellhead Rating (psi) 5000			Test Fluid Weight (ppg) 9.4		
Fracture Gradient (ppg) 14.2			Annular Rating (psi) 5000			Casing/Liner Test (psi) 2554		
Liner Top Depth (ft) 0.0			BOP/Diverter Rating (psi) 10000			Formation Test (ppg) 14.2		
Cement Volume (cu ft) 5326								

Interval Number 3		Type	Casing	Name		Intermediate		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Depth (ft) TVD	Pore Pressure (ppg)
1	9.625	53.5	P110	10900	7949	9030	9000	9.6
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION		
Hole Size (in) 12.250			Type Blowout			Annular Test (psi) 3500		
Mud Weight (ppg) 10.1			Size (in) 13.625			BOP/Diverter Test (psi) 7500		
Mud Type Code Oil Base			Wellhead Rating (psi) 10000			Test Fluid Weight (ppg) 10.1		
Fracture Gradient (ppg) 16.9			Annular Rating (psi) 5000			Casing/Liner Test (psi) 6520		
Liner Top Depth (ft) 0.0			BOP/Diverter Rating (psi) 10000			Formation Test (ppg) 16.0		
Cement Volume (cu ft) 2298								

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Interval Number 4			Type	Liner	Name			Production	
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD TVD		Pore Pressure (ppg)	
1	7.625	33.7	HC-Q125	11800	8800	10870	10795	14.5	
GENERAL INFORMATION			PREVENTER INFORMATION			TEST INFORMATION			
Hole Size (in)		9.875	Type	Blowout		Annular Test (psi)		3500	
Mud Weight (ppg)		15.0	Size (in)	13.625		BOP/Diverter Test (psi)		7500	
Mud Type Code		Oil Base	Wellhead Rating (psi)	10000		Test Fluid Weight (ppg)		15.0	
Fracture Gradient (ppg)		17.8	Annular Rating (psi)	5000		Casing/Liner Test (psi)		1389	
Liner Top Depth (ft)		8900.0	BOP/Diverter Rating (psi)	10000		Formation Test (ppg)		0.0	
Cement Volume (cu ft)		556							

PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. Requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 27 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form for the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849